

CLAIM AMENDMENTS

Please amend Claims 1 and 8 as follows:

1. (Currently Amended) A photoelectric conversion apparatus comprising:
 - a sensor array for receiving reflected light from an object;
 - a first transfer unit arranged to transfer signals from said sensor array; and
 - a ring-shaped second transfer unit arranged to integrate the signals from said first transfer unit,
wherein said first transfer unit transfers ~~a first signal sequentially~~
~~therein first signals~~ from said sensor array in a light projection ON state and ~~a second~~
~~signal signals~~ from said sensor array in a light projection OFF state to said second transfer unit at different timings respectively, and a transfer frequency of said second transfer unit is higher than that of said first transfer unit.
2. (Previously Presented) An apparatus according to claim 1, wherein each timing of said first transfer unit has a phase different from that of said second transfer unit.
3. (Previously Presented) An apparatus according to claim 1, wherein said second transfer unit comprises a skimming unit arranged to determine skimming on

the basis of the second signal, and a pixel for which skimming is determined performs skimming by a combination of light projection ON and OFF states.

4. (Previously Presented) An apparatus according to claim 1, wherein the first and second signals are transferred alternately, and a light projection OFF pixel goes ahead of a light projection ON signal.

5. (Original) An apparatus according to claim 1, wherein integration starts from the first signal.

6. (Original) An apparatus according to claim 1, wherein light projection repeatedly alternates the ON and OFF states.

7. (Previously Presented) An apparatus according to claim 3, wherein skimming is inhibited when a light projection OFF signal goes ahead of a light projection ON signal in integration of the signal in said second transfer unit.

8. (Currently Amended) A distance measuring apparatus comprising:
a light projection unit arranged to project light to an object;
a plurality of sensor arrays for receiving reflected light from the object;

a plurality of first transfer units arranged to transfer signals from said plurality of sensor arrays, respectively;

a plurality of second transfer units arranged to integrate the signals from said plurality of first transfer units, respectively, wherein each of said first transfer ~~means~~ units transfers ~~a first signal sequentially therein first signals~~ from said sensor array in a light projection ON state and ~~a second signal signals~~ from said sensor array in a light projection OFF state to the second transfer units at different timings respectively, and a transfer frequency of each of said second transfer units is higher than that of each of said first transfer units; and

a distance measuring unit arranged to measure a distance using a difference signal between the first signal and the second signal output from said plurality of second transfer units.

9. (Previously Presented) An apparatus according to claim 8, wherein each timing of said first transfer units has a phase different from that of said second transfer units.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)